

#7

|   |                |    |                          |                  |   |
|---|----------------|----|--------------------------|------------------|---|
| Substitute for form 1449 PTO<br><b>JUL 20 2001</b><br><b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b><br>(use as many sheets as necessary) |                |    | <b>Complete if Known</b> |                  | <b>RECEIVED</b><br><br><b>JUL 23 2001</b><br><br><b>TECH CENTER 1600/2900</b> |
|   |                |    | Applicant Number         | 09/765,068       |   |
|   |                |    | Filing Date              | January 18, 2001 |   |
|   |                |    | First Named Inventor     | Donoho, Gregory  |   |
|   |                |    | Group Art Unit           | 1652             |   |
| Examiner Name   | To Be Assigned |    |                          |                  |   |
| Attorney Docket Number  | LEX-0119-USA   |    |                          |                  |   |
| Sheet   | 1              | of | 3                        |                  |   |

| U.S. PATENT DOCUMENTS |                       |                      |                                   |   |  |   |
|-----------------------|-----------------------|----------------------|-----------------------------------|---|--|---|
| Examiner Initials*    | Cite No. <sup>1</sup> | U.S. Patent Document |                                   | Name of Patentee or Applicant of Cited Document | Date of Publication of cited Document MM-DD-YYYY | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
|                       |                       | Number               | Kind Code <sup>2</sup> (if known) |   |  |   |
| R.R.                  | AA                    | 4,215,051            |                                   | Schroeder et al                                 | 07/29/80   | 260/346.7   |
| R.R.                  | AB                    | 4,376,110            |                                   | David et al                                     | 03/08/83   | 436/513   |
| R.R.                  | AC                    | 4,594,595            |                                   | Struckman                                       | 06/10/86   | 343/770   |
| R.R.                  | AD                    | 4,631,211            |                                   | Houghten  | 12/23/86   | 428/35  |
| R.R.                  | AE                    | 4,689,405            |                                   | Frank et al                                     | 08/25/87   | 536/27  |
| R.R.                  | AF                    | 4,713,326            |                                   | Dattagupta et al                                | 12/15/87   | 435/16  |
| R.R.                  | AG                    | 4,946,778            |                                   | Ladner et al                                    | 08/07/90   | 435/16 69.1   |
| R.R.                  | AH                    | 5,252,743            |                                   | Barrett et al                                   | 10/12/93   | 435/16 303.7  |
| R.R.                  | AI                    | 5,424,186            |                                   | Fodor et al                                     | 06/13/95   | 435/16  |
| R.R.                  | AJ                    | 5,445,934            |                                   | Fodor et al                                     | 08/29/95   | 435/16  |
| R.R.                  | AK                    | 5,459,127            |                                   | Felgner et al                                   | 10/17/95   | 514/7   |
| R.R.                  | AL                    | 5,556,752            |                                   | Lockhart et al                                  | 09/17/96   | 435/16  |
| R.R.                  | AM                    | 5,700,637            |                                   | Southern  | 12/23/97   | 435/16  |
| R.R.                  | AN                    | 5,744,305            |                                   | Fodor et al                                     | 04/28/98   | 435/16  |
|                       | AO                    | 5,756,289            |                                   | Hoekstra  | 05/26/98   |   |
|                       | AP                    | 5,817,470            |                                   | Au Young et al                                  | 10/06/98   |   |
| R.R.                  | AQ                    | 5,830,721            |                                   | Stemmer et al                                   | 11/03/98   | 435/172.1   |
| R.R.                  | AR                    | 5,837,458            |                                   | Minshull et al                                  | 11/17/98   | 435/16  |
| R.R.                  | AS                    | 5,869,336            |                                   | Meyer et al.                                    | 02/09/99   | 435/348   |
| R.R.                  | AT                    | 5,877,397            |                                   | Lonberg et al                                   | 03/02/99   | 800/2   |
| R.R.                  | AU                    | 5,948,767            |                                   | Scheule et al.                                  | 09/07/99   | 514/144   |
| R.R.                  | AV                    | 6,075,181            |                                   | Kucherlapati et al                              | 06/13/00   | 800/25  |
| R.R.                  | AW                    | 6,110,490            |                                   | Thierry   | 08/29/00   | 424/450   |
| R.R.                  | AX                    | 6,150,584            |                                   | Kucherlapati et al.                             | 11/21/00   | 800/18  |

| FOREIGN PATENT DOCUMENTS |                       |                         |                     |                                   |   |  |   |
|--------------------------|-----------------------|-------------------------|---------------------|-----------------------------------|---|--|---|
| Examiner Initials*       | Cite No. <sup>1</sup> | Foreign Patent Document |                     |                                   | Name of Patentee or Applicant of Cited Document | Date of Publication of cited Document MM-DD-YYYY | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
|                          |                       | Office <sup>3</sup>     | Number <sup>4</sup> | Kind Code <sup>5</sup> (if known) |   |  |   |
|                          |                       |                         |                     |                                   |   |  |   |

|                    |                     |                 |        |
|--------------------|---------------------|-----------------|--------|
| Examiner Signature | <i>R. R. Ronchi</i> | Date Considered | 7/1/03 |
|--------------------|---------------------|-----------------|--------|

\*EXAMINER: Initial reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Please type a plus sign (+) inside this box →

Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Substitute for form 1449B/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

JUL 20 2001

(use as many sheets as necessary)

**Complete if Known**

|                        |                  |
|------------------------|------------------|
| Application Number     | 09/765,068       |
| Filing Date            | January 18, 2001 |
| First Named Inventor   | Donoho, Gregory  |
| Group Art Unit         | 18451652         |
| Examiner Name          | 18-Be Assigned   |
| Attorney Docket Number | LEX-0119-USA     |

**RECEIVED**

JUL 23 2001

TECH CENTER 1600/2900

**OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS**

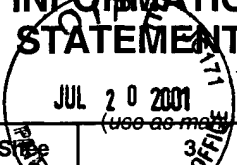
| Examiner Initials* | Cite No. <sup>1</sup> | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T <sup>2</sup> |
|--------------------|-----------------------|---|----------------|
| re.re.             | AY                    | Bird et al, 1988, "Single-Chain Antigen-Binding Proteins", Science 242:423-426.   |                |
| re.re.             | AZ                    | Bitter et al, 1987, "Expression and Secretion Vectors for Yeast", Methods in Enzymology 153:516-544.  |                |
| re.re.             | BA                    | Colbere-Garapin et al, 1981, "A New Dominant Hybrid Selective Marker for Higher Eukaryotic Cells", J. Mol. Biol. 150:1-14.  |                |
| re.re.             | BB                    | Gautier et al, 1987, "α-DNA IV: α-anomeric and β-anomeric tetrathymidylates covalently linked to intercalating oxazolopyridocarbazole. Synthesis, physiochemical properties and poly (rA) binding", Nucleic Acids Research 15(16):6625-6641.                    |                |
| re.re.             | BC                    | Greenspan et al, 1993, "Idiotypes: structure and immunogenicity", FASEB Journal 7:437-444.  |                |
| re.re.             | BD                    | Huse et al, 1989, "Generation of a Large Combinatorial Library of the Immunoglobulin Repertoire in Phage Lambda", Science 246:1275-1281.  |                |
| re.re.             | BE                    | Huston et al, 1988, "Protein engineering of antibody binding sites: Recovery of specific activity in an anti-digoxin single-chain Fv analogue produced in Escherichia coli", Proc. Natl. Acad. Sci. USA 85:5879-5883.   |                |
| re.re.             | BF                    | Inoue et al, 1987, "Sequence-dependent hydrolysis of RNA using modified oligonucleotide splints and RNase H", FEBS Letters 215(2):327-330.  |                |
| re.re.             | BG                    | Inoue et al, 1987, "Synthesis and hybridization studies on two complementary nona(2'-O-methyl)ribonucleotides", Nucleic Acids Research 15(15):6131-6149.  |                |
| re.re.             | BH                    | Inouye & Inouye, 1985, "Up-promoter mutations in the lpp gene of Escherichia coli", Nucleic Acids Research 13(9):3101-3110.   |                |
| re.re.             | BI                    | Janknecht et al, 1991, "Rapid and efficient purification of native histidine-tagged protein expressed by recombinant vaccinia virus", PNAS 88:8972-8976.  |                |
| re.re.             | BJ                    | Kohler & Milstein, 1975, "Continuous cultures of fused cells secreting antibody of predefined specificity", Nature 256:495-497.   |                |
| —                  | BK                    | Legan et al, 1984, "Adenovirus tripartite leader sequence enhances translation of mRNAs late after infection", Proc. Natl. Acad. Sci. USA 81:3655-3659.   |                |
| re.re.             | BL                    | Lowy et al, 1980, "Isolation of Transforming DNA: Cloning the Hamster apt Gene", Cell 22:817-823.   |                |
| re.re.             | BM                    | Morrison et al, 1984, "Chimeric human antibody molecules: Mouse antigen-binding domains with human constant region domains", Proc. Natl. Acad. Sci. USA 81:6851-6855.   |                |
| re.re.             | BN                    | Mulligan & Berg, 1981, "Selection for animal cells that express the Escherichia coli gene coding for xanthine-guanine phosphoribosyltransferase", Proc. Natl. Acad. Sci. USA 78(4):2072-2076.   |                |
| re.re.             | BO                    | Neuberger et al, 1984, "Recombinant antibodies possessing novel effector functions", Nature 312:604-608.  |                |
| re.re.             | BP                    | Nisonoff, 1991, "Idiotypes: Concepts and Applications", J. of Immunology 147:2429-2438.   |                |
| re.re.             | BQ                    | O'Hare et al, 1981, "Transformation of mouse fibroblasts to methotrexate resistance by a recombinant plasmid expressing a prokaryotic dihydrofolate reductase", Proc. Natl. Acad. Sci. USA 78(3):1527-1531.   |                |
| re.re.             | BR                    | Ruther et al, 1983, "Easy identification of cDNA clones", EMBO Journal 2(10):1791-1794.   |                |
| re.re.             | BS                    | Santerre et al, 1984, "Expression of prokaryotic genes for hygromycin B and G418 resistance as dominant-selection markers in mouse L cells", Gene 30:147-156.   |                |
| re.re.             | BT                    | Sarin et al, 1988, "Inhibition of acquired immunodeficiency syndrome virus by oligodeoxynucleoside methylphosphonates", Proc. Natl. Acad. Sci. USA 85:7448-7451.  |                |
| re.re.             | BU                    | Smith et al, 1983, "Molecular Engineering of the Autographa californica Nuclear Polyhedrosis Virus Genome: Deletion Mutations within the Polyhedrin Gene", J. Virol. 46(2):584-593.   |                |
| re.re.             | BV                    | Stein et al, 1988, "Physiochemical properties of phosphorothioate oligodeoxynucleotides", Nucleic Acids Research 16(8):3209-3221.   |                |
| re.re.             | BW                    | Szybalska & Szybalski, 1962, "Genetics of Human Cell Lines. IV. DNA-Mediated Heritable Transformation of a Biochemical Trait", Proc. Natl. Acad. Sci. USA 48:2026-2034.   |                |

Please type a plus sign (+) inside this box → □

Valid for use through 10/31/99. OMB 0651-0031

Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

|   |                        |                          |                               |
|---|------------------------|--------------------------|-------------------------------|
| Substitute for form 1449B/PTO   |                        | <b>Complete if Known</b> |                               |
| <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b><br> |                        | Application Number       | 09/765,068                    |
|   |                        | Filing Date              | January 18, 2001              |
|   |                        | First Named Inventor     | Donoho, Gregory               |
|   |                        | Group Art Unit           | 1645 1652                     |
|   |                        | Examiner Name            | MOY, SHIPONKY, To Be Assigned |
| Sheet 3 of 3  | Attorney Docket Number | LEX-0119-USA             | TECH CENTER 1600/2900         |

| OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS |                       |   |                |
|---|-----------------------|---|----------------|
| Examiner Initials*                                | Cite No. <sup>1</sup> | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T <sup>2</sup> |
| R.R.  | BX                    | Takeda et al, 1985, "Construction of chimaeric processed immunoglobulin genes containing mouse variable and human constant region sequences", Nature 314:452-454.   |                |
| R.R.  | BY                    | Van Heeke et al, 1989, "Expression of Human Asparagine Synthetase in Escherichia coli", J. Biol. Chemistry 264(10):5503-5509.   |                |
| R.R.  | BZ                    | Ward et al, 1989, "Binding activities of a repertoire of single immunoglobulin variable domains secreted from Escherichia coli", Nature 341:544-546.  |                |
| R.R.  | CA                    | Wigler et al, 1977, "Transfer of Purified Herpes Virus Thymidine Kinase Gene to Cultured Mouse Cells", Cell 11:223-232.   |                |
| R.R.  | CB                    | Wigler et al, 1980, "Transformation of mammalian cells with an amplifiable dominant-acting gene", Proc. Natl. Acad. Sci. USA 77(6):3567-3570.   |                |

|                    |                   |                 |        |
|--------------------|-------------------|-----------------|--------|
| Examiner Signature | <i>R. Flonsky</i> | Date Considered | 7/1/03 |
|--------------------|-------------------|-----------------|--------|

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Please type a plus sign (+) inside this box → □

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

PTO/SB/08A (10-96)  
Approved for use through 10/31/99. OMB 0651-0031  
Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

#6

|   |  |  |   |
|---|--|--|---|
| Substitute for form 1449A/PTO   |  | <b>Complete if Known</b><br><b>Application Number</b> 09/765,068<br><b>Filing Date</b> January 18, 2001<br><b>First Named Inventor</b> Donoho, Gregory<br><b>Group Art Unit</b> 1645 1652<br><b>Examiner Name</b> To Be Assigned<br><b>Attorney Docket Number</b> LEX-0119-USA |   |
| <b>SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b><br>AUG 13 2001<br>RECEIVED<br>AUG 17 2001 |  |  |   |
| Sh  | 1<br>(use as many sheets as necessary) | of   | 1 |

TECH CENTER 1600/2900

| U.S. PATENT DOCUMENTS |                       |                      |                                   |   |  |   |
|-----------------------|-----------------------|----------------------|-----------------------------------|---|--|---|
| Examiner Initials*    | Cite No. <sup>1</sup> | U.S. Patent Document |                                   | Name of Patentee or Applicant of Cited Document | Date of Publication of cited Document MM-DD-YYYY | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
|                       |                       | Number               | Kind Code <sup>2</sup> (if known) |   |  |   |
|                       |                       |                      |                                   |   |  |   |

| FOREIGN PATENT DOCUMENTS |                       |                         |                     |                                   |   |  |   |                |
|--------------------------|-----------------------|-------------------------|---------------------|-----------------------------------|---|--|---|----------------|
| Examiner Initials*       | Cite No. <sup>1</sup> | Foreign Patent Document |                     |                                   | Name of Patentee or Applicant of Cited Document | Date of Publication of cited Document MM-DD-YYYY | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear | T <sup>6</sup> |
|                          |                       | Office <sup>3</sup>     | Number <sup>4</sup> | Kind Code <sup>5</sup> (if known) |   |  |   |                |
|                          |                       | AA                      | WO 94 17189 A       |                                   | Salk Institute for Biological Studies           | 08-04-1994                                       |   |                |
|                          |                       |                         |                     |                                   |   |  |   |                |
|                          |                       |                         |                     |                                   |   |  |   |                |
|                          |                       |                         |                     |                                   |   |  |   |                |

| OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS |                       |   |                |
|---|-----------------------|---|----------------|
| Examiner Initials*                                | Cite No. <sup>1</sup> | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T <sup>2</sup> |
| re.re.  | AB                    | ZHAI ET AL.: "Rattus norvegicus casein kinase 1 gamma 1 isoform mRNA, complete cds." EMBL SEQUENCE DATABASE, 10 June 1995, XP002171562, Heidelberg DE AC U22296   |                |
| re.re.  | AC                    | ZHAI ET AL.: "Casein kinase I, gamma I isoform (EC 2.7.1.-) (CKI-gamma I)" SWISSPROT SEQUENCE DATA BASE, 15 July 1998, XP002171563 Ac Q62761 & JOURNAL OF BIOLOGICAL CHEMISTRY, vol. 270, no. 21, 26 May 1995 pgs 12717-12724                                   |                |
| re.re.  | AD                    | KUSUDA ET AL.: "Homo sapiens CSNK1G1L mRNA for casein kinase 1 gamma 1, complete cds." EMBL SEQUENCE DATABASE, 14 November 2000 XP002171565 HEIDELBERG DE AC AB042563   |                |
| re.re.  | AE                    | KUSUDA ET AL.: "Homo sapiens CSNK1G1L mRNA for casein kinase 1 gamma 1, complete cds." Embi sequence database, 14 November 2000 XP002171565 HEIDELBERG DE Ac AB042562 & CYTOGENET. CELL GENET., vol. 90 2000, pages 298-302.                                    |                |
|   |                       |   |                |
|   |                       |   |                |

|                    |        |                 |        |
|--------------------|--------|-----------------|--------|
| Examiner Signature | re.re. | Date Considered | 7/1/03 |
|--------------------|--------|-----------------|--------|

\*EXAMINER: Initial reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.